

PROJECT 10073 RECORD

1. DATE TIME GROUP 14-17 January 66 14/1035Z 17/1045Z		2. LOCATION Weston, Massachusetts	
3. SOURCE Civilian		10. CONCLUSION 1. UNIDENTIFIED 2. Other (CLOUD) (Barion Cloud)	
4. NUMBER OF OBJECTS One			
5. LENGTH OF OBSERVATION 1. 20 Minutes 2. Several Minutes		11. BRIEF SUMMARY AND ANALYSIS SEE CASE FILE	
6. TYPE OF OBSERVATION Ground-Visual (BX)			
7. COURSE South			
8. PHOTOS <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
9. PHYSICAL EVIDENCE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

The outstanding things about the cloud were its uniform illumination clear to the edges, although the edges were not distinct, and the large angular diameter of the head and its persistence, and the length of the tail. Now, it was less than one hour after sunset and a large meteor burn-out and its resulting trail could possibly account for this. The color might be accounted for by the sun just setting on the cloud at that height. But at a height of 75 or 100 miles, which is called for, the angular extent of this cloud would lead to prohibitively large linear size. A cloud extending five degrees at a hundred miles up would be about eight miles in diameter, certainly unduly large for a meteoric cloud. A cloud closer by, say ten miles away, would need to be only a half a mile in diameter, which is still large but feasible. The source of its light, however, would be a matter of conjecture. Noctilucous clouds are about that high, but generally do not have that shape, nor that apparent size. The long tail certainly suggests the trail of a moving object.

If the two incidents of January 14th and 17th are connected, then whatever device was producing the light on January 14th might conceivably have produced the cloud of January 17th. It is obviously of great importance to establish the following facts:

- (1) Did any of the local military air fields have a special experiment going on on those two dates? This should be followed up at once and exhaustively, for if it can be shown that these two sightings arose from man-made sources, a powerful case can be made for virtually all of the other similar sightings having the same cause. Because here we have an experienced and highly technically trained man, obviously and sincerely very puzzled by what he saw, and because of the high caliber of the witness, cracking this case is of great importance.
- (2) We should know the exact weather conditions at the time of the sighting of January 17th. Were there other clouds in the sky? We know there was no moonlight. What were the winds aloft? This should be determined for the evenings of both sightings.

Since the input to this case has been exhausted as far as the witnesses are concerned, the next logical step is (a) to check with the local airport, police stations, etc., whether any other witnesses reported these two sightings, and (b) whether there was any special local activity at that time. Checks should certainly be made with Wallops Island and with Cape Kennedy. It is possible that this is a trail resulting from a launching.

Since there was both the helicopter and a commercial plane aloft at the time of the first sighting, it might be helpful to find out whether the local radar had three objects on their screens at that time in that area. Radar tracking of the first object will have no meaning if there is not concomitant record of the radar tracking of the helicopter and commercial plane also.

Weston, Mass. Sightings - Page 6

Both Mr. [REDACTED] and Dr. [REDACTED] have requested that the results of the followup be communicated to them. I am very hopeful that your office will be able to come up with a cleancut and airtight solution to this problem which, because of the manner in which it was witnessed and the manner in which it was reported, make it in more ways than one a potential troublemaker. Good Luck!

Sincerely yours,



J. Allen Hynek
Director

JAH:ar

Enc.

This is an interview with [REDACTED], MIT, January 20, 1966.

On this interesting sighting -- let's go through the thing -- January 14th, 1966, you were -- suppose I say it in my own words and then you can correct. It was 5:55 P.M., you were just coming home to Weston, Massachusetts and -- what rate were you travelling?

Are you speaking of the first event?

Yes, the first event.

Well, the first event -- actually, I was home in the house changing my clothes, when the children sighted the object at 5:55.

And it was Jimmy who sighted it first?

Yes.

And he came in then yelling "There's a flying saucer outside!"

That is, the youngest boy came in -- Arthur.

Did he say -- something I forgot to ask before -- did he say anything about how long he had been watching this thing move?

It couldn't have been more than 3 minutes. They hollered outside when they first saw it. And it wasn't more than 3 minutes later when they came in.

Did he indicate where he saw it when he first saw it?

Later on, when we were watching the object he indicated that it had been at an altitude of about 30° and I would estimate an azimuth of 210° .

Two ten? So -- in the southwest?

That is, yes.

So, the total arc that it covered would have been about what, would you estimate?

Through the two periods of motion?

Yes.

I would imagine approximately 50° .

That is then, as I see it, broken up into two parts.

The first time that he saw it coming in from -- say the southwest -- at about an altitude of 30° , presumably it stopped then when it was due south.

Almost exactly due south, and at an altitude of about 20° .

(A break in the recording.)

From the southwest to due south, from 210 to 180 , about 25 or 30 degrees -- something like that, presumably. Did the boys say at all what first attracted their attention to it when it first appeared?

Due to the intensity of it -- and the scintillation of the color. It was very intense. It was quite brighter than a first magnitude star.

Something like Venus which is -- as a matter of fact, they might have seen Venus at that time. It would have been in the southwest -- very low in the southwest.

It was much brighter than Venus; much whiter.

This is the marvelous thing about having a good observer, because then one can both ask intelligent questions and get intelligent answers. Now, why don't you just tell me again -- you got the binoculars from the service drawer --

Going out of the house, I got my small glasses, which are actually 4×30 , to observe the object. I really didn't believe I was going to see anything. In the meantime, my 15 year old boy, Roger, went back into the house and got the 6×30 Bausch and Lomb binoculars. We both observed the object. It appeared as an intense white -- maybe with a slight yellowish tint -- source, probably not a pinpoint source. And this single source was steady in intensity. There were, however, greenish and pinkish tints which appeared to scintillate around the object, very much like a colored flame dancing around a central object.

Would it be anything like a welding arc, or acetylene torch -- any resemblance to that?

Light from a central source. Are you speaking of the color?

(Break in tape.)

I would describe it more as just a very small source in a very hot furnace, as a central source, white hot type of flame, and then with this peripheral color dancing around the outside of it. the red and green -- the red bordered on the pink. The other thing we observed looking at the object through some small trees, it was quite evident that there was a wandering motion of the object with respect to the background of the trees, which seemed almost random, up and down and sideways, not at all rapid, but

What was the frequency -- if you could ascribe any sort of frequency of oscillation to its motion, how many cycles per second --

Oh, let me say that it would probably continue one particular direction of motion for approximately two or three seconds. Maybe even longer than that.

There is no reason -- as you said before we started recording this -- that made you feel that the motion was real and not an illusion of the eye, because you had the matrix of the branches ...

That's right.

Well, that certainly establishes that. And you were standing still.

Yes, right.

(Break in tape.)

All right. Then, how long did it stay in that hovering, wandering, meandering position?

Somewhere between 5 and 10 minutes. I didn't actually time it.

That's interesting -- that long? Just before it started to move off to the southeast, did it give any indication that it was going to move, so to speak? By a change of color, intensity, or anything like that?

No, I didn't observe any change in color, intensity -- the object appeared exactly as it had previously.

When we talked about it before, you said something about it was a kind of eerie thing you had not experienced before. In fact, I think you said it was a sort of radioactive kind of thing. Can you go into that a little more?

I don't know why I said that except that the source was extremely intense and it was of a color you would not expect to see generated by artificial means such as a lamp, or any known types of lamp.

How would it compare with a short circuit in an electrical wire, when you have two wires crossing, such as occurs in an ice storm.

There would be some similarity there except for the fluctuations of the color.

The central light was much more steady than you would experience in something like that.

Was the fluctuation also apparent to the unaided eye? What I am trying to get at is that I want to make sure that it is not a function of viewing through the glasses.

Yes, it definitely was. When I first saw the object, that was the first thing that crossed my mind, that the fluctuation of the color did not represent the same thing as the scintillation of a star. I had that recollection even before I put the glasses on it.

What did you think when you first saw it? Sometimes the first impressions are rather helpful. What did you think you were looking at?

My very first impression was -- is it an extremely bright star? But as I say that thought was dispelled almost immediately because of the fluctuation of the red and green color. The second thought -- searching for a logical explanation -- was that it might be a landing light of an aircraft. However, when I put the glasses on it, the extreme intensity for the very small source, did not resemble, nor did the colors as far as that goes, the landing lights of an aircraft.

Do you suppose it could have been an experimental craft of some sort trying out strob lights? Did it give you the impression of being a strob light?

No it was not.

I am trying to think -- there wasn't anything going on in that area at that time. This is the thing we are going to look into to find out whether there was anything in the air going on at that time. What Air Force Base would it be out of if there had been anything like that?

Well, I think we are a distance of about 8 miles or so south of Bedford, and this object was south of us.

Now, let's go back to the motion. First of all, was there any identifying sound?

None.

None whatever. Then, let's say something about the manner in which it disappeared, and its second phase of motion. As far as you know, it was moving the whole time ...

It was coming down from its altitude and decreasing its zenith. Unfortunately, the two that were observing at the time were younger. That was the impression I got talking to the boys.

But after observing the object for some 5 or 10 minutes in its apparent hovering position and its wandering, it started to increase its altitude and travel towards the east and I would estimate the altitude went back up to about 30° and it arrived at an azimuth of approximately 160° , at which time it appeared to stop and hover again. This motion, although it did not seem to be in proximity to it, seems to be coincidental with the passing of an airliner.

You had mentioned that there was an airliner coming from east to west, and a helicopter from west to east. ... This is a good point because there will be many who will say that if you discount the peculiar nature of the lights, how would the motion differ from that of an aircraft?

I don't honestly see how I could call it an aircraft. Besides, I had both the plane and the helicopter for comparison.

(Break in tape.)

Well, then, it hovered for 4 or 5 minutes.

No, it was longer than that. It might have been 10 minutes. That, of course, was an estimate because a lot of excitement was going on.

By the way, did Mrs. W. also come out?

Oh, yes, she saw it, too.

(Break in tape.)

And then when it rose in altitude to 30° , it became partly obscured by trees, at which time we went out into the street to observe it further, and I would say that at this time it was ... we were moving around trying to get a look at it .. It is rather difficult accurately to describe its motion.

The only thing I can say for certain is that after probably another 5 minutes, keeping the azimuth constant but decreasing its altitude as though going away, until it finally disappeared from view. It could have been in level flight which would make it appear to get the lower altitude.

There is only one other item here and that was that, as I mentioned before, the next morning I asked my oldest boy, Roger, to describe his observations to me, and these checked mine entirely, and I also asked him if he could detect any shape in the central white light source. .. I asked Roger how he would describe the intense center of the object in terms of shape, and he said that if it was anything other than a small disc, it appeared to him it might have a light hourglass shape. And this, actually, collaborated my own impressions. The angle subtended being so small that it appeared something like you were viewing Jupiter -- that was with small glasses and it was very difficult to confirm this, but we did both have the same impression -- that this very small center source was probably somewhat in the shape of an hourglass.

I think this sort of reviews our previous discussion. I can't think of any salient facts that were left out. ... Let's try to get the angular rates. We haven't gotten that down. When it was moving its fastest -- when you observed it moving toward the southeast, how would you ...

It was going somewhat, I would say, in excess of a degree per second. It is difficult to estimate angles -- something in that quarter of magnitude.

(Break in tape.)

... Did the object disappear while you were watching it? ... Well, that's a good question. Did the object move behind something at any time, particularly a cloud?

No, the object was visible continuously. Except, of course, behind the tree. But, of course ...

...

Did the object move in front of something?

No.

All right. No sound, you said before, and we described the color ... This is a good one, for instance -- hold a matchstick at arm's length and line up the object, in other words, with the match head. I have often tried it -- do you have a good old-fashioned match around here someplace.

...

Actually, you were hard-pressed to tell what the shape of the single white object was because of ...

...

We described the velocity.

Yes.

And you have already told me that you couldn't estimate how far away it was. ... There should be a special form when you are asking for criticism.

Where were you when you saw the object?

Outdoors.

In fairly open countryside, isn't it? It's not really like the city, either, is it?

Well, there are no houses immediately across the street and the houses are spaced about 200 feet apart.

I would say that "open countryside" is more likely there. Were the following used in the observation: binoculars, yes. Well, this 26th is a nice question but I think we have covered that pretty well. What I do frequently when talking to people who are not technically trained is simply to say -- well, now, if you had some magic way of putting something up somewhere in the sky, what would you put up? And you would be surprised how many times it helps, because somebody says "Well, I'd put up a kid's top," or something like that, and it gives you a picture, immediately, far better ...

Have you ever seen this, or a similar object before?

No, I never have.

Was someone else with you?

Yes.

We have your telephone number ..

It's Pembroke (?) 4 - 9205.

Age.

Forty-six.

Now, we have fulfilled our formal obligations. But the conversation (notes on conversation?) are far more important than the form. One thing I always like to ask is: What did you talk about after the thing had disappeared. What were your emotional reactions?

Oh, my wife said maybe it was a satellite. I said how could a satellite possibly go through the motions that this did.

Yes, and that long.

And so we agreed immediately that it was not a satellite. Of course, Arthur, the youngest would like to relate this to some of his TV experiences, but the older boy certainly agrees that there was nothing in his experience that would allow him to account for what he had been looking at.

From what you described that you saw -- I have certainly never seen anything like it. Well, let's go down the line to some intelligent questions. You say it was mostly calm. But was there any prevailing wind direction? Just to rule that out.

I don't recall. There was not enough wind that you would notice it, standing out --

Well, we can check that. I don't see any point to the old idea of the weather balloon -- it couldn't be that because weather balloons carry these little ... about a half-inch. And the satellite is ruled out. Aircraft -- I would tend to think, and you seemed to agree with me -- virtually out.

1-3-66

Major Quintanilla:

The attached is Dr. Hynak's interview with
[REDACTED] Woodbury of Weston, Mass. on [REDACTED]
sightings of January 14 and 17, 1966.



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Wallops Station
Wallops Island, Virginia 23337

April 23, 1968

IN REPLY REFER TO

A-16.2
39/JEM

[REDACTED]
UFO Project
University of Colorado
202 Woodbury Hall
Boulder, Colorado 80302

Dear [REDACTED]:

This is in reply to your recent letter to the Wright-Patterson Air Force Base, Ohio, requesting information about chemical cloud experiments launched from Wallops on January 17, 1966.

We are enclosing herewith copies of two news releases which contain information about these launchings, including liftoff times.

If you need any additional information, please let us know.

Sincerely yours,

Joyce B. Milliner
Public Information Specialist

Enclosures 2

cc:
Major Hector Quintanilla, Jr.
Chief, Aerial Phenomena Office
USAF AFSC Wright-Patterson AFB, Ohio
Attn: TDPT (UFO)

It moved
"slower" and
seemed to
be farther
away because
the light was
smaller
It moved while
I was gone
to get the
binoculars

How it looked
through
binoculars.

obs
line from
here

Where I first saw
it and what the distance
was

Path of
plane

Path of helicopter

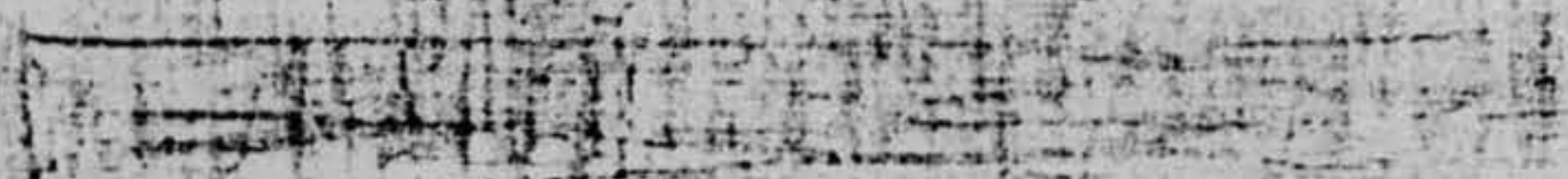
fence

Rager, Jr

Wander
Kaveri
Brahma

rota descent

with various shades
of pastel



Nearby wooded area
beyond and to the left

cleared area
50' long

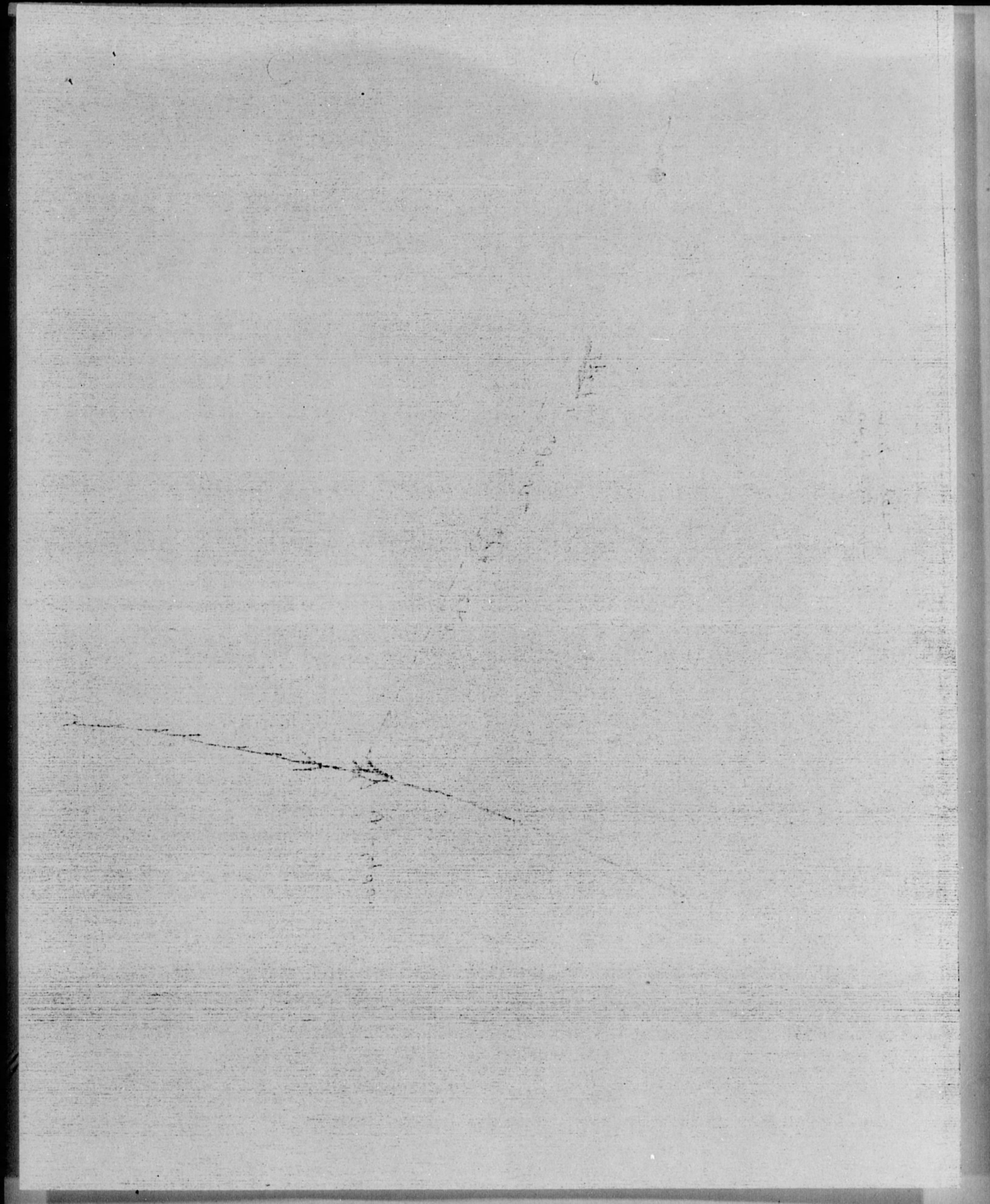


W. 100 ft
R. 100 ft

← woods

Tree in
the
middle
of the
field

the road always to the
to the road



DEPARTMENT OF THE AIR FORCE
DATA PROCESSING CENTER (MAC)
ASHEVILLE, NORTH CAROLINA 28801

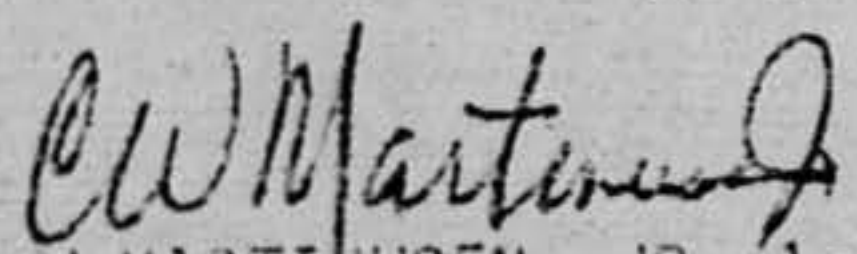
REPLY TO
ATTN OF: ETAC/DPD/Crist/218

21 July 1966

SUBJECT: Weather Data for Weston Area

TO: Foreign Technology Division/TDETR

1. Reference: Your letter addressed to U. S. Weather Bureau, dated 11 July 66, UFO Observations, 14-17 January 1966, Weston, Massachusetts.
2. Your letter has been handed to this Division for action, since part of our mission is to furnish weather and climatological support to Air Force and Army organizations or their contractors.
3. No weather observations are available for Weston, Massachusetts, however, we are forwarding data for the nearest regular reporting stations as follows:
 - a. Surface weather observations (WBAN-10 Forms) for Boston Weather Bureau Airport Station and L. G. Hanscom Field including data for the 1500-2000 hours local time on 14 and 17 January 1966.
 - b. Upper air observations (WBAN 31 ABC Forms, Adiabatic Charts) from Nantucket, Massachusetts for flights within the same date/times.
4. Future requirements of this nature and other climatological support will be expeditiously furnished if you will contact the Environmental Technical Applications Center, USAF, Building 159, Stop 128, Navy Yard Annex, Washington, D. C. 20333. In extreme emergencies we may be contacted directly by telephone, Area Code 704 254-0961, Extension 201.


C. W. MARTINUSEN, JR., 1st Lt, USAF
Administrative Officer

Atch
a/s above

Pending

TDETR

UFO Observation, 14 - 17 January 1966, Weston, Massachusetts

JUL 11 1966

U.S. Weather Bureau

This office is in receipt of an unidentified flying object report for 14 and 17 January 1966. We would appreciate your office forwarding Weston, Massachusetts weather data for the period 1500 - 2000 hours, EST, on 14 and 17 January 1966, in order that a firm evaluation may be made on this sighting.

de J
ERIC T. de JONCKHEERE, Colonel, USAF
Deputy for Technology and Subsystems

COORDINATION
ORIGINATOR:

de J
TDETR MAJ H QUINTANILLA, JR

DATED 11 Jul 66

Eric T. de Jonckheere

TDET

DATED 11 July 66

TDETR OFFICIAL FILE CY

WJPB031
NNNTE: SZCC YA29

RR RUODSQ

DE RUECYG 164 5219-5

ZNR UUUUU

R 2119 52

FM ETAC NAVYD ANNEX WASHDC

TO RUODSQ/FTD WPATL

BT

UNCLAS

FR PWA 0036 FEB 66.

FER TDETW, AREA A. INTERPOLATED WINDS FOR BOSTON FOR 1200Z, 14 JAN 66 FOLLOW. NEAREST RAWINSONDES ARE AT NANTUCKET, MASS AND PORTLAND, ME. PICAL TO 22,000 FEET WAS AVAILABLE FOR BOSTON AT 1800Z.D

HT (FT)	WIND (KTS)	HT (FT)	WIND (KTS)
5000	31/30	25000	28/35
6000	30/30	30000	28/70
7000	30/35	35000	27/65
8000	30/35	40000	27/65

PAGE TWO RUECYG 164 UNCLAS

9000	29/30	45000	27/65
10000	28/35	50000	27/55
12000	27/40	55000	27/45
14000	27/45	60000	28/35
16000	26/50	65000	28/30
18000	26/55	70000	29/25
20000	26/60	75000	29/20
22000	27/65		

Well, certainly any aircraft other than a helicopter would be ruled out, and the colors -- flickering green and red are definitely not the colors that are associated with aircraft. As I mentioned earlier, this was between the time the airliner and the helicopter came by so there were entirely different colors. The scintillation was not related to the flashing of an aircraft's lights.

And the jet also?

Yes.

The helicopter which you viewed was mostly ...

Yes, it was just a straight east-west motion, at a fairly nominal altitude. It went by to the south.

Also, of course, one could say if it had been a helicopter up at 30° altitude -- well, if it had been far enough away not to be heard -- and yet at this apparent altitude it would have to

The only thing is that any light of that intensity on an aircraft -- first of all, the lights would not be that intense. And, also, one thing that was notable was the constancy of the white light -- the intense white light in the center. There was no fluctuation in this.

That is, the central source was constant.

Yes, that's right.

It didn't give you the impression of giving off sparks?

No, if you had just a white object with gaseous ? (dashes?) of flames dancing around it, -- it was this type of thing.

It was already established that there was no moon. It must have quite a jewel-like effect, then, probably against the clear sky. It was a surprising intensity and then what immediately claimed your attention was the color -- the scintillation of the color. ... Was it much brighter than minus 4 magnitude, and as you know each magnitude ...

Oh, it was much brighter than that. And I would suspect that unless Venus was well out of orbit it could not have possibly been in the position that I observed.

No, that is out. Well, any star is out, because a star doesn't move from west to east. So, that's out. Satellites are out. Well, I will certainly have the office check most carefully into whether and where anything was going on at that time. And, of course, if it was going on whether it matches. I can't think of anything further to ask here.

I don't recall anything that we have omitted. I just have no explanation at all of what we observed.

Well, this is why when Winston called me he said: "I wouldn't ordinarily call you on something like this, but I know Roger and if he says it was of a type that he couldn't explain, it would be hard to explain." That's what he said. He certainly took it very seriously. .. So, now, the cloud that looks like an umbilicus:

I don't know the proper name of the color. There is an antique reddish-orange that is used. .. it's a dark, well, it's a reddish orange: it's not tangerine, it's more red than that. I know I have a mirror at home that is exactly the same color.

Sort of a burnished copper?

No, this is definitely red. But it appeared that the light was being emitted from the cloud rather than reflecting. I think this was brought on by two things: One is the color was completely uniform throughout the whole cloud or vapor trail, and that when it diminished, it diminished only in intensity without changing the actual spectrum at all.

And the whole thing subtended about 7° (?) you said. The head itself -- the main portion that lasted the longest, what would you say the angular extent of that was?

I think I would up my angular estimate on that, because using the bowl of the Big Dipper as a reference, the head itself would be approximately that size, so then that I think would put the rest of it in proportion.

At least ten degrees?

Oh, yes. That vapor trail appearing portion of it extended off into the distance.

You know what would be an interesting thing here would be if you were to write a note for me to the Astronomical Journal, just describing it, making no allegations or connections of any sort, just simply as one would describe in a medical journal a rare tropical disease. I think it might be of great value. I am going to bug you on that and ask you to do that because -- in fact, why don't we -- well, how tired are you now, if we put on a new tape and you describe what happened from the time you turned the corner, etc. -- I can write it up and you won't have to.

-- This was January 17, 1966, at 5:45 P.M. and the sun had set as you mentioned, at 4:53. O.K., now you are driving home -- you take it from there.

I made a right-angle turn from Highland Street on to Pine Street and Weston. As soon as I turned the corner, even with the headlights on, I was struck by the brilliant cloud, or whatever it was, in the southern sky. In fact, I could scarcely keep my eyes on the road for watching it.

How far away from home were you then?

Only about four-tenths of a mile. And so I then drove back into the driveway and went in to get the family out to observe it. They came out very promptly. My oldest boy was the most interested in it. The younger two couldn't work up much interest in something that resembled a cloud. On close observation the central, nearest portion not only -- let me back up -- the whole object glowed with a bright, reddish orange glow of uniform color. Also, looking toward the larger central portion, as shown in the sketch, there appeared to be a reddish glow in the sky which was rather general in nature and extended up almost as far as the zenith.

By the way, did we say this was hovering about 30° upward? Or did you say?

Well, the object itself -- the central portion -- would be 30° and it appeared that, other than the central portion, was going away, becoming a greater distance off, with the exception of the portion right across the front which seemed to be going right straight across the field of view.

But the lower portion of the drawing is near the horizon as far as I could tell.

You have the impression that the lower portion was closer -- as I remarked before it is possible but I don't think it is -- that this was a meteoric cause of things becoming more and more in your line of sight, and this was way off in the distance and this would have ...

If you had something that was mitt-like (?) or possibly reflected, although it was kind of late for reflection -- it could have come in making a vapor trail and then explode, because this central portion was definitely a big, diffuse, round thing. ...

It actually could explode, they sometimes do, but not in a cloud.

But that would have to be at an altitude higher than where you get a vapor trail associated with it.

In the daytime a bolide can leave a smoke trail that looks something like a contrail, and it is a somewhat curly thing. ...

I have seen some fairly sizable meteors.

(Break in tape.)



NEWS RELEASE

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

WALLOPS STATION, WALLOPS ISLAND, VIRGINIA 23337

TELEPHONE: VALLEY 4-3411 - EXTs 554 and 579

FOR RELEASE: IMMEDIATE, JANUARY 18, 1966

Release No. 66-4

WALLOPS LAUNCHES SIX EXPERIMENTS OVERNIGHT

The National Aeronautics and Space Administration conducted six experiments between sunset and dawn last night from its Wallops Island, Va., Station.

Five of the payloads were chemical cloud experiments launched at 5:39 p.m., 7:32 p.m., 9:00 p.m., 12:12 a.m. and 6:31 a.m. EST. The twilight and dawn firings were sodium vapor experiments which generated reddish-orange clouds visible for hundreds of miles along the East Coast. The other three payloads consisted of trimethylaluminum (TMA) vapor trails which formed blue-green clouds high above the earth. The payloads were flown on Nike-Apache research rockets and the vapor trails were ejected at altitude ranges of about 30 to 130 statute miles.

Purpose of these experiments was to measure wind velocities and directions at various altitudes in the upper atmosphere. Data on wind conditions are obtained by photographing the

-more-

Well, the thing that was amazing about this was the uniformity of the color. It was completely uniform, even in the course of time as it faded away, the color did not change. It started out being very intense.

Yes, that intensity. Let's see, how can we describe it -- compare the intensity to?

Well, let's say that at its brightest, when I first saw it, it was approximately the same as a brilliant cloud right at sunset.

Well, that gives me a picture. But even here I am going to ask the Air Force to work on it to see whether an experiment or some such thing was going on at that time.

Even my oldest boy described my feelings exactly when he said it was eerie.

I wish I could see something like that. I never have.

I never have before. These two possibly associated events are the only things like this that I have ever seen. ...

this case includes

Six (6) Surface Weather charts

eight (8) Adiabatic charts

SURFACE WEATHER OBSERVATIONS

RECEIVED
FBI
JAN 17 1966

1987/88 1811 1 188 1214

1917

[illegible][illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

1. Name: John Doe
 2. Address: 123 Main St, Anytown, USA
 3. City: Anytown State: USA Zip: 12345
 4. Phone: 555-1234
 5. Email: john.doe@example.com
 6. Date: 12/31/2023
 7. Signature: [Signature]
 8. Printed Name: John Doe
 9. Title: Manager
 10. Department: Marketing
 11. Company: ABC Corp
 12. Project: Project X
 13. Status: Complete
 14. Notes: See attached file for details.
 15. Comments: Good work!
 16. Feedback: Excellent!
 17. Rating: 5/5
 18. Reviewer: John Doe
 19. Review Date: 12/31/2023
 20. Reviewer Title: Manager
 21. Reviewer Department: Marketing
 22. Reviewer Company: ABC Corp
 23. Reviewer Project: Project X
 24. Reviewer Status: Complete
 25. Reviewer Notes: See attached file for details.
 26. Reviewer Comments: Good work!
 27. Reviewer Feedback: Excellent!
 28. Reviewer Rating: 5/5
 29. Reviewer Signature: [Signature]
 30. Reviewer Printed Name: John Doe
 31. Reviewer Title: Manager
 32. Reviewer Department: Marketing
 33. Reviewer Company: ABC Corp
 34. Reviewer Project: Project X
 35. Reviewer Status: Complete
 36. Reviewer Notes: See attached file for details.
 37. Reviewer Comments: Good work!
 38. Reviewer Feedback: Excellent!
 39. Reviewer Rating: 5/5
 40. Reviewer Signature: [Signature]
 41. Reviewer Printed Name: John Doe
 42. Reviewer Title: Manager
 43. Reviewer Department: Marketing
 44. Reviewer Company: ABC Corp
 45. Reviewer Project: Project X
 46. Reviewer Status: Complete
 47. Reviewer Notes: See attached file for details.
 48. Reviewer Comments: Good work!
 49. Reviewer Feedback: Excellent!
 50. Reviewer Rating: 5/5
 51. Reviewer Signature: [Signature]
 52. Reviewer Printed Name: John Doe
 53. Reviewer Title: Manager
 54. Reviewer Department: Marketing
 55. Reviewer Company: ABC Corp
 56. Reviewer Project: Project X
 57. Reviewer Status: Complete
 58. Reviewer Notes: See attached file for details.
 59. Reviewer Comments: Good work!
 60. Reviewer Feedback: Excellent!
 61. Reviewer Rating: 5/5
 62. Reviewer Signature: [Signature]
 63. Reviewer Printed Name: John Doe
 64. Reviewer Title: Manager
 65. Reviewer Department: Marketing
 66. Reviewer Company: ABC Corp
 67. Reviewer Project: Project X
 68. Reviewer Status: Complete
 69. Reviewer Notes: See attached file for details.
 70. Reviewer Comments: Good work!
 71. Reviewer Feedback: Excellent!
 72. Reviewer Rating: 5/5
 73. Reviewer Signature: [Signature]
 74. Reviewer Printed Name: John Doe
 75. Reviewer Title: Manager
 76. Reviewer Department: Marketing
 77. Reviewer Company: ABC Corp
 78. Reviewer Project: Project X
 79. Reviewer Status: Complete
 80. Reviewer Notes: See attached file for details.
 81. Reviewer Comments: Good work!
 82. Reviewer Feedback: Excellent!
 83. Reviewer Rating: 5/5
 84. Reviewer Signature: [Signature]
 85. Reviewer Printed Name: John Doe
 86. Reviewer Title: Manager
 87. Reviewer Department: Marketing
 88. Reviewer Company: ABC Corp
 89. Reviewer Project: Project X
 90. Reviewer Status: Complete
 91. Reviewer Notes: See attached file for details.
 92. Reviewer Comments: Good work!
 93. Reviewer Feedback: Excellent!
 94. Reviewer Rating: 5/5
 95. Reviewer Signature: [Signature]
 96. Reviewer Printed Name: John Doe
 97. Reviewer Title: Manager
 98. Reviewer Department: Marketing
 99. Reviewer Company: ABC Corp
 100. Reviewer Project: Project X
 101. Reviewer Status: Complete
 102. Reviewer Notes: See attached file for details.
 103. Reviewer Comments: Good work!
 104. Reviewer Feedback: Excellent!
 105. Reviewer Rating: 5/5
 106. Reviewer Signature: [Signature]
 107. Reviewer Printed Name: John Doe
 108. Reviewer Title: Manager
 109. Reviewer Department: Marketing
 110. Reviewer Company: ABC Corp
 111. Reviewer Project: Project X
 112. Reviewer Status: Complete
 113. Reviewer Notes: See attached file for details.
 114. Reviewer Comments: Good work!
 115. Reviewer Feedback: Excellent!
 116. Reviewer Rating: 5/5
 117. Reviewer Signature: [Signature]
 118. Reviewer Printed Name: John Doe
 119. Reviewer Title: Manager
 120. Reviewer Department: Marketing
 121. Reviewer Company: ABC Corp
 122. Reviewer Project: Project X
 123. Reviewer Status: Complete
 124. Reviewer Notes: See attached file for details.
 125. Reviewer Comments: Good work!
 126. Reviewer Feedback: Excellent!
 127. Reviewer Rating: 5/5
 128. Reviewer Signature: [Signature]
 129. Reviewer Printed Name: John Doe
 130. Reviewer Title: Manager
 131. Reviewer Department: Marketing
 132. Reviewer Company: ABC Corp
 133. Reviewer Project: Project X
 134. Reviewer Status: Complete
 135. Reviewer Notes: See attached file for details.
 136. Reviewer Comments: Good work!
 137. Reviewer Feedback: Excellent!
 138. Reviewer Rating: 5/5
 139. Reviewer Signature: [Signature]
 140. Reviewer Printed Name: John Doe
 141. Reviewer Title: Manager
 142. Reviewer Department: Marketing
 143. Reviewer Company: ABC Corp
 144. Reviewer Project: Project X
 145. Reviewer Status: Complete
 146. Reviewer Notes: See attached file for details.
 147. Reviewer Comments: Good work!
 148. Reviewer Feedback: Excellent!
 149. Reviewer Rating: 5/5
 150. Reviewer Signature: [Signature]
 151. Reviewer Printed Name: John Doe
 152. Reviewer Title: Manager
 153. Reviewer Department: Marketing
 154. Reviewer Company: ABC Corp
 155. Reviewer Project: Project X
 156. Reviewer Status: Complete
 157. Reviewer Notes: See attached file for details.
 158. Reviewer Comments: Good work!
 159. Reviewer Feedback: Excellent!
 160. Reviewer Rating: 5/5
 161. Reviewer Signature: [Signature]
 162. Reviewer Printed Name: John Doe
 163. Reviewer Title: Manager
 164. Reviewer Department: Marketing
 165. Reviewer Company: ABC Corp
 166. Reviewer Project: Project X
 167. Reviewer Status: Complete
 168. Reviewer Notes: See attached file for details.
 169. Reviewer Comments: Good work!
 170. Reviewer Feedback: Excellent!
 171. Reviewer Rating: 5/5
 172. Reviewer Signature: [Signature]
 173. Reviewer Printed Name: John Doe
 174. Reviewer Title: Manager
 175. Reviewer Department: Marketing
 176. Reviewer Company: ABC Corp
 177. Reviewer Project: Project X
 178. Reviewer Status: Complete
 179. Reviewer Notes: See attached file for details.
 180. Reviewer Comments: Good work!
 181. Reviewer Feedback: Excellent!
 182. Reviewer Rating: 5/5
 183. Reviewer Signature: [Signature]
 184. Reviewer Printed Name: John Doe
 185. Reviewer Title: Manager
 186. Reviewer Department: Marketing
 187. Reviewer Company: ABC Corp
 188. Reviewer Project: Project X
 189. Reviewer Status: Complete
 190. Reviewer Notes: See attached file for details.
 191. Reviewer Comments: Good work!
 192. Reviewer Feedback: Excellent!
 193. Reviewer Rating: 5/5
 194. Reviewer Signature: [Signature]
 195. Reviewer Printed Name: John Doe
 196. Reviewer Title: Manager
 197. Reviewer Department: Marketing
 198. Reviewer Company: ABC Corp
 199. Reviewer Project: Project X
 200

1. NAME _____
 2. DATE _____
 3. TIME _____
 4. LOCATION _____
 5. REASON _____
 6. WITNESSES _____
 7. REPORT _____
 8. SIGNATURE _____
 9. INITIALS _____
 10. REMARKS _____
 11. DATE _____
 12. TIME _____
 13. LOCATION _____
 14. REASON _____
 15. WITNESSES _____
 16. REPORT _____
 17. SIGNATURE _____
 18. INITIALS _____
 19. REMARKS _____
 20. DATE _____
 21. TIME _____
 22. LOCATION _____
 23. REASON _____
 24. WITNESSES _____
 25. REPORT _____
 26. SIGNATURE _____
 27. INITIALS _____
 28. REMARKS _____
 29. DATE _____
 30. TIME _____
 31. LOCATION _____
 32. REASON _____
 33. WITNESSES _____
 34. REPORT _____
 35. SIGNATURE _____
 36. INITIALS _____
 37. REMARKS _____
 38. DATE _____
 39. TIME _____
 40. LOCATION _____
 41. REASON _____
 42. WITNESSES _____
 43. REPORT _____
 44. SIGNATURE _____
 45. INITIALS _____
 46. REMARKS _____
 47. DATE _____
 48. TIME _____
 49. LOCATION _____
 50. REASON _____
 51. WITNESSES _____
 52. REPORT _____
 53. SIGNATURE _____
 54. INITIALS _____
 55. REMARKS _____
 56. DATE _____
 57. TIME _____
 58. LOCATION _____
 59. REASON _____
 60. WITNESSES _____
 61. REPORT _____
 62. SIGNATURE _____
 63. INITIALS _____
 64. REMARKS _____
 65. DATE _____
 66. TIME _____
 67. LOCATION _____
 68. REASON _____
 69. WITNESSES _____
 70. REPORT _____
 71. SIGNATURE _____
 72. INITIALS _____
 73. REMARKS _____
 74. DATE _____
 75. TIME _____
 76. LOCATION _____
 77. REASON _____
 78. WITNESSES _____
 79. REPORT _____
 80. SIGNATURE _____
 81. INITIALS _____
 82. REMARKS _____
 83. DATE _____
 84. TIME _____
 85. LOCATION _____
 86. REASON _____
 87. WITNESSES _____
 88. REPORT _____
 89. SIGNATURE _____
 90. INITIALS _____
 91. REMARKS _____
 92. DATE _____
 93. TIME _____
 94. LOCATION _____
 95. REASON _____
 96. WITNESSES _____
 97. REPORT _____
 98. SIGNATURE _____
 99. INITIALS _____
 100. REMARKS _____
 101. DATE _____
 102. TIME _____
 103. LOCATION _____
 104. REASON _____
 105. WITNESSES _____
 106. REPORT _____
 107. SIGNATURE _____
 108. INITIALS _____
 109. REMARKS _____
 110. DATE _____
 111. TIME _____
 112. LOCATION _____
 113. REASON _____
 114. WITNESSES _____
 115. REPORT _____
 116. SIGNATURE _____
 117. INITIALS _____
 118. REMARKS _____
 119. DATE _____
 120. TIME _____
 121. LOCATION _____
 122. REASON _____
 123. WITNESSES _____
 124. REPORT _____
 125. SIGNATURE _____
 126. INITIALS _____
 127. REMARKS _____
 128. DATE _____
 129. TIME _____
 130. LOCATION _____
 131. REASON _____
 132. WITNESSES _____
 133. REPORT _____
 134. SIGNATURE _____
 135. INITIALS _____
 136. REMARKS _____
 137. DATE _____
 138. TIME _____
 139. LOCATION _____
 140. REASON _____
 141. WITNESSES _____
 142. REPORT _____
 143. SIGNATURE _____
 144. INITIALS _____
 145. REMARKS _____
 146. DATE _____
 147. TIME _____
 148. LOCATION _____
 149. REASON _____
 150. WITNESSES _____
 151. REPORT _____
 152. SIGNATURE _____
 153. INITIALS _____
 154. REMARKS _____
 155. DATE _____
 156. TIME _____
 157. LOCATION _____
 158. REASON _____
 159. WITNESSES _____
 160. REPORT _____
 161. SIGNATURE _____
 162. INITIALS _____
 163. REMARKS _____
 164. DATE _____
 165. TIME _____
 166. LOCATION _____
 167. REASON _____
 168. WITNESSES _____
 169. REPORT _____
 170. SIGNATURE _____
 171. INITIALS _____
 172. REMARKS _____
 173. DATE _____
 174. TIME _____
 175. LOCATION _____
 176. REASON _____
 177. WITNESSES _____
 178. REPORT _____
 179. SIGNATURE _____
 180. INITIALS _____
 181. REMARKS _____
 182. DATE _____
 183. TIME _____
 184. LOCATION _____
 185. REASON _____
 186. WITNESSES _____
 187. REPORT _____
 188. SIGNATURE _____
 189. INITIALS _____
 190. REMARKS _____
 191. DATE _____
 192. TIME _____
 193. LOCATION _____
 194. REASON _____
 195. WITNESSES _____
 196. REPORT _____
 197. SIGNATURE _____
 198. INITIALS _____
 199. REMARKS _____
 200. DATE _____
 201. TIME _____
 202. LOCATION _____
 203. REASON _____
 204. WITNESSES _____
 205. REPORT _____
 206. SIGNATURE _____
 207. INITIALS _____
 208. REMARKS _____
 209. DATE _____
 210. TIME _____
 211. LOCATION _____
 212. REASON _____
 213. WITNESSES _____
 214. REPORT _____
 215. SIGNATURE _____
 216. INITIALS _____
 217. REMARKS _____
 218. DATE _____
 219. TIME _____
 220. LOCATION _____
 221. REASON _____
 222.

ROBERT E. RICHARDSON

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 05-10-2010 BY 60322 UCBAW

[Faint, illegible handwritten notes]

SURFACE WEATHER OBSERVATIONS										STATION IDENTIFICATION	
TIME	TEMP	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	STATION	COORDINATES
0000	0	15								STATION 1000	0000
0005	0	15				041	10	30	18	0000	0000
0010	0	15				041	10	30	18	0000	0000
0015	0	15				041	10	30	18	0000	0000
0020	0	15				041	10	30	18	0000	0000
0025	0	15				041	10	30	18	0000	0000
0030	0	15				041	10	30	18	0000	0000
0035	0	15				041	10	30	18	0000	0000
0040	0	15				041	10	30	18	0000	0000
0045	0	15				041	10	30	18	0000	0000
0050	0	15				041	10	30	18	0000	0000
0055	0	15				041	10	30	18	0000	0000
0100	0	15				041	10	30	18	0000	0000
0105	0	15				041	10	30	18	0000	0000
0110	0	15				041	10	30	18	0000	0000
0115	0	15				041	10	30	18	0000	0000
0120	0	15				041	10	30	18	0000	0000
0125	0	15				041	10	30	18	0000	0000
0130	0	15				041	10	30	18	0000	0000
0135	0	15				041	10	30	18	0000	0000
0140	0	15				041	10	30	18	0000	0000
0145	0	15				041	10	30	18	0000	0000
0150	0	15				041	10	30	18	0000	0000
0155	0	15				041	10	30	18	0000	0000
0200	0	15				041	10	30	18	0000	0000
0205	0	15				041	10	30	18	0000	0000
0210	0	15				041	10	30	18	0000	0000
0215	0	15				041	10	30	18	0000	0000
0220	0	15				041	10	30	18	0000	0000
0225	0	15				041	10	30	18	0000	0000
0230	0	15				041	10	30	18	0000	0000
0235	0	15				041	10	30	18	0000	0000
0240	0	15				041	10	30	18	0000	0000
0245	0	15				041	10	30	18	0000	0000
0250	0	15				041	10	30	18	0000	0000
0255	0	15				041	10	30	18	0000	0000
0300	0	15				041	10	30	18	0000	0000
0305	0	15				041	10	30	18	0000	0000
0310	0	15				041	10	30	18	0000	0000
0315	0	15				041	10	30	18	0000	0000
0320	0	15				041	10	30	18	0000	0000
0325	0	15				041	10	30	18	0000	0000
0330	0	15				041	10	30	18	0000	0000
0335	0	15				041	10	30	18	0000	0000
0340	0	15				041	10	30	18	0000	0000
0345	0	15				041	10	30	18	0000	0000
0350	0	15				041	10	30	18	0000	0000
0355	0	15				041	10	30	18	0000	0000
0400	0	15				041	10	30	18	0000	0000
0405	0	15				041	10	30	18	0000	0000
0410	0	15				041	10	30	18	0000	0000
0415	0	15				041	10	30	18	0000	0000
0420	0	15				041	10	30	18	0000	0000
0425	0	15				041	10	30	18	0000	0000
0430	0	15				041	10	30	18	0000	0000
0435	0	15				041	10	30	18	0000	0000
0440	0	15				041	10	30	18	0000	0000
0445	0	15				041	10	30	18	0000	0000
0450	0	15				041	10	30	18	0000	0000
0455	0	15				041	10	30	18	0000	0000
0500	0	15				041	10	30	18	0000	0000
0505	0	15				041	10	30	18	0000	0000
0510	0	15				041	10	30	18	0000	0000
0515	0	15				041	10	30	18	0000	0000
0520	0	15				041	10	30	18	0000	0000
0525	0	15				041	10	30	18	0000	0000
0530	0	15				041	10	30	18	0000	0000
0535	0	15				041	10	30	18	0000	0000
0540	0	15				041	10	30	18	0000	0000
0545	0	15				041	10	30	18	0000	0000
0550	0	15				041	10	30	18	0000	0000
0555	0	15				041	10	30	18	0000	0000
0600	0	15				041	10	30	18	0000	0000
0605	0	15				041	10	30	18	0000	0000
0610	0	15				041	10	30	18	0000	0000
0615	0	15				041	10	30	18	0000	0000
0620	0	15				041	10	30	18	0000	0000
0625	0	15				041	10	30	18	0000	0000
0630	0	15				041	10	30	18	0000	0000
0635	0	15				041	10	30	18	0000	0000
0640	0	15				041	10	30	18	0000	0000
0645	0	15				041	10	30	18	0000	0000
0650	0	15				041	10	30	18	0000	0000
0655	0	15				041	10	30	18	0000	0000
0700	0	15				041	10	30	18	0000	0000
0705	0	15				041	10	30	18	0000	0000
0710	0	15				041	10	30	18	0000	0000
0715	0	15				041	10	30	18	0000	0000
0720	0	15				041	10	30	18	0000	0000
0725	0	15				041	10	30	18	0000	0000
0730	0	15				041	10	30	18	0000	0000
0735	0	15				041	10	30	18	0000	0000
0740	0	15				041	10	30	18	0000	0000
0745	0	15				041	10	30	18	0000	0000
0750	0	15				041	10	30	18	0000	0000
0755	0	15				041	10	30	18	0000	0000
0800	0	15				041	10	30	18	0000	0000
0805	0	15				041	10	30	18	0000	0000
0810	0	15				041	10	30	18	0000	0000
0815	0	15				041	10	30	18	0000	0000
0820	0	15				041	10	30	18	0000	0000
0825	0	15				041	10	30	18	0000	0000
0830	0	15				041	10	30	18	0000	0000
0835	0	15				041	10	30	18	0000	0000
0840	0	15				041	10	30	18	0000	0000
0845	0	15				041	10	30	18	0000	0000
0850	0	15				041	10	30	18	0000	0000
0855	0	15				041	10	30	18	0000	0000
0900	0	15				041	10	30	18	0000	0000
0905	0	15				041	10	30	18	0000	0000
0910	0	15				041	10	30	18	0000	0000
0915	0	15				041	10	30	18	0000	0000
0920	0	15				041	10	30	18	0000	0000
0925	0	15				041	10	30	18	0000	0000
0930	0	15				041	10	30	18	0000	0000
0935	0	15				041	10	30	18	0000	0000
0940	0	15				041	10	30	18	0000	0000
0945	0	15				041	10	30	18	0000	0000
0950	0	15				041	10	30	18	0000	0000
0955	0	15				041	10	30	18	0000	0000
1000	0	15				041	10	30	18	0000	0000
1005	0	15				041	10	30	18	0000	0000
1010	0	15				041	10	30	18	0000	0000
1015	0	15				041	10	30	18	0000	0000
1020	0	15				041	10	30	18	0000	0000
1025	0	15				041	10	30	18	0000	0000
1030	0	15				041	10	30	18	0000	0000
1035	0	15				041	10	30	18	0000	0000
1040	0	15				041	10	30	18	0000	0000
1045	0	15				041	10	30	18	0000	0000
1050	0	15				041	10	30	18	0000	0000
1055	0	15				041	10	30	18	0000	0000
1100	0	15				041	10	30	18	0000	0000
1105	0	15				041	10	30	18	0000	0000
1110	0	15				041	10	30	18	0000	0000
1115	0	15				041	10	30	18	0000	0000
1120	0	15				041	10	30	18	0000	0000
1125	0	15				041	10	30	18	0000	0000
1130	0	15				041	10	30	18	0000	0000
1135	0	15				041	10	30	18	0000	0000
1140	0	15				041	10	30	18	0000	0000
1145	0	15				041	10	30	18	0000	0000
1150	0	15				041	10	30	18	0000	0000
1155	0	15				041	10	30	18	0000	0000
1200	0	15									

SURFACE WEATHER OBSERVATIONS

U.S. BUREAU OF WEATHER

February 17, 1901

Time	Temp	Wind	Bar	Humid	Clouds	Vis	State	Time	Temp	Wind	Bar	Humid	Clouds	Vis	State
1								1							
2								2							
3								3							
4								4							
5								5							
6								6							
7								7							
8								8							
9								9							
10								10							
11								11							
12								12							
13								13							
14								14							
15								15							
16								16							
17								17							
18								18							
19								19							
20								20							
21								21							
22								22							
23								23							
24								24							
25								25							
26								26							
27								27							
28								28							
29								29							
30								30							
31								31							

Time	Temp	Wind	Bar	Humid	Clouds	Vis	State	Time	Temp	Wind	Bar	Humid	Clouds	Vis	State
1								1							
2								2							
3								3							
4								4							
5								5							
6								6							
7								7							
8								8							
9								9							
10								10							
11								11							
12								12							
13								13							
14								14							
15								15							
16								16							
17								17							
18								18							
19								19							
20								20							
21								21							
22								22							
23								23							
24								24							
25								25							
26								26							
27								27							
28								28							
29								29							
30								30							
31								31							

Time	Temp	Wind	Bar	Humid	Clouds	Vis	State	Time	Temp	Wind	Bar	Humid	Clouds	Vis	State
1								1							
2								2							
3								3							
4								4							
5								5							
6								6							
7								7							
8								8							
9								9							
10								10							
11								11							
12								12							
13								13							
14								14							
15								15							
16								16							
17								17							
18								18							
19								19							
20								20							
21								21							
22								22							
23								23							
24								24							
25								25							
26								26							
27								27							
28								28							
29								29							
30								30							
31								31							

Time	Temp	Wind	Bar	Humid	Clouds	Vis	State	Time	Temp	Wind	Bar	Humid	Clouds	Vis	State
1								1							
2								2							
3								3							
4								4							
5								5							
6								6							
7								7							
8								8							
9								9							
10								10							
11								11							
12								12							
13								13							
14								14							
15								15							
16								16							
17								17							
18								18							
19								19							
20								20							
21								21							
22								22							
23								23							
24								24							
25								25							
26								26							
27								27							
28								28							
29								29							
30								30							
31								31							

Time	Temp	Wind	Bar	Humid	Clouds	Vis	State	Time	Temp	Wind	Bar	Humid	Clouds	Vis	State
1								1							
2								2							
3								3							
4								4							
5								5							
6								6							
7								7							
8								8							
9								9							
10								10							
11								11							
12								12							
13								13							
14								14							
15								15							
16								16							
17								17							
18								18							
19								19							
20								20							
21								21							
22								22							
23								23							
24								24							
25								25							
26								26							
27								27							
28								28							
29								29							
30								30							
31								31							

2005, 15(1), 1-12.

1911

1	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	
---	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	--

ADIABATIC CHART



1000	1000	1000
950	950	950
900	900	900

1000	1000	1000
950	950	950
900	900	900

1000	1000	1000	1000
950	950	950	950
900	900	900	900

CODED MESSAGE FOR TRANSMISSION

1. 1000 1000 1000 1000
2. 1000 1000 1000 1000
3. 1000 1000 1000 1000
4. 1000 1000 1000 1000
5. 1000 1000 1000 1000
6. 1000 1000 1000 1000
7. 1000 1000 1000 1000
8. 1000 1000 1000 1000
9. 1000 1000 1000 1000
10. 1000 1000 1000 1000
11. 1000 1000 1000 1000
12. 1000 1000 1000 1000
13. 1000 1000 1000 1000
14. 1000 1000 1000 1000
15. 1000 1000 1000 1000
16. 1000 1000 1000 1000
17. 1000 1000 1000 1000
18. 1000 1000 1000 1000
19. 1000 1000 1000 1000
20. 1000 1000 1000 1000

SURFACE OBSERVATION AT RELEASE

TIME	DATE	STATION	TYPE
1000	1000	1000	1000
950	950	950	950
900	900	900	900

ADDITIONAL DATA

1000 1000 1000 1000
1000 1000 1000 1000
1000 1000 1000 1000
1000 1000 1000 1000

1000	1000	1000
950	950	950
900	900	900

1000	1000	1000
950	950	950
900	900	900

1000	1000	1000
950	950	950
900	900	900

1000	1000	1000
950	950	950
900	900	900

1000	1000	1000
950	950	950
900	900	900

1000	1000	1000
950	950	950
900	900	900

1000	1000	1000
950	950	950
900	900	900

1000	1000	1000
950	950	950
900	900	900

LEGEND TO CONSTANT PRESSURE LINES

1000	1000	1000
950	950	950
900	900	900

LEGEND FOR MIXED LAYER

1000	1000	1000
950	950	950
900	900	900

LEGEND FOR MIXED LAYER

1000	1000	1000
950	950	950
900	900	900

LEGEND FOR MIXED LAYER

1000	1000	1000
950	950	950
900	900	900

1000	1000	1000
950	950	950
900	900	900



NEWS RELEASE

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Wallops Station, Wallops Island, Virginia 23337

TELEPHONE: VALLEY 4-3411 • EXTS. 584 and 579

FOR RELEASE: IMMEDIATE, FRIDAY
JANUARY 14, 1966

Release No. 66-3

CHEMICAL CLOUDS TO BE VISIBLE ALONG EAST COAST

A National Aeronautics and Space Administration chemical experiment, beginning January 17, will send huge and easily visible colored clouds wafting along the eastern coast of the United States.

Weather conditions permitting, the first of five vapor cloud launchings is scheduled for Monday at 5:38 p.m. EST. The other vapor experiments are to be fired one and one-half, three, and six hours after the first launch, with the remaining experiment scheduled for about 6:45 o'clock Tuesday morning.

The dusk-to-dawn firings for meteorological research in the upper atmosphere will be at NASA's Wallops Station on the Virginia Coast.

Both sodium vapor and trimethylaluminum (TMA) experiments will be conducted in this series. Two-stage solid propellant Nike-Apache research rockets will be programmed to eject trails of vapor from about 50 to 125 statute miles altitude.

-more-

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART

NAME _____
 TITLE _____
 OFFICE _____
 DATE _____
 TIME _____
 LOCATION _____
 WIND _____
 TEMPERATURE _____
 HUMIDITY _____
 PRESSURE _____
 VISIBILITY _____
 CLOUDS _____
 PRECIPITATION _____
 STATE OF SKY _____
 DIRECTION OF WIND _____
 FORCE OF WIND _____
 NAME OF VESSEL _____
 RANK AND NAME OF COMMANDER _____
 NAME AND RANK OF OBSERVER _____
 NAME AND RANK OF ASSISTANT _____
 NAME AND RANK OF ENGINEER _____
 NAME AND RANK OF SURGEON _____
 NAME AND RANK OF CHAPLAIN _____
 NAME AND RANK OF OTHER _____

LEGEND FOR CONSTANT PRESSURE LINES

Pressure	Line Style
1000 mb	Solid line
950 mb	Dashed line
900 mb	Dotted line
850 mb	Long dashed line
800 mb	Short dashed line
750 mb	Long dash short dash line
700 mb	Thin solid line
650 mb	Thin dashed line
600 mb	Thin dotted line
550 mb	Thin long dashed line
500 mb	Thin short dashed line
450 mb	Thin long dash short dash line
400 mb	Thin thin solid line
350 mb	Thin thin dashed line
300 mb	Thin thin dotted line
250 mb	Thin thin long dashed line
200 mb	Thin thin short dashed line
150 mb	Thin thin long dash short dash line
100 mb	Thin thin thin solid line
50 mb	Thin thin thin dashed line
0 mb	Thin thin thin dotted line

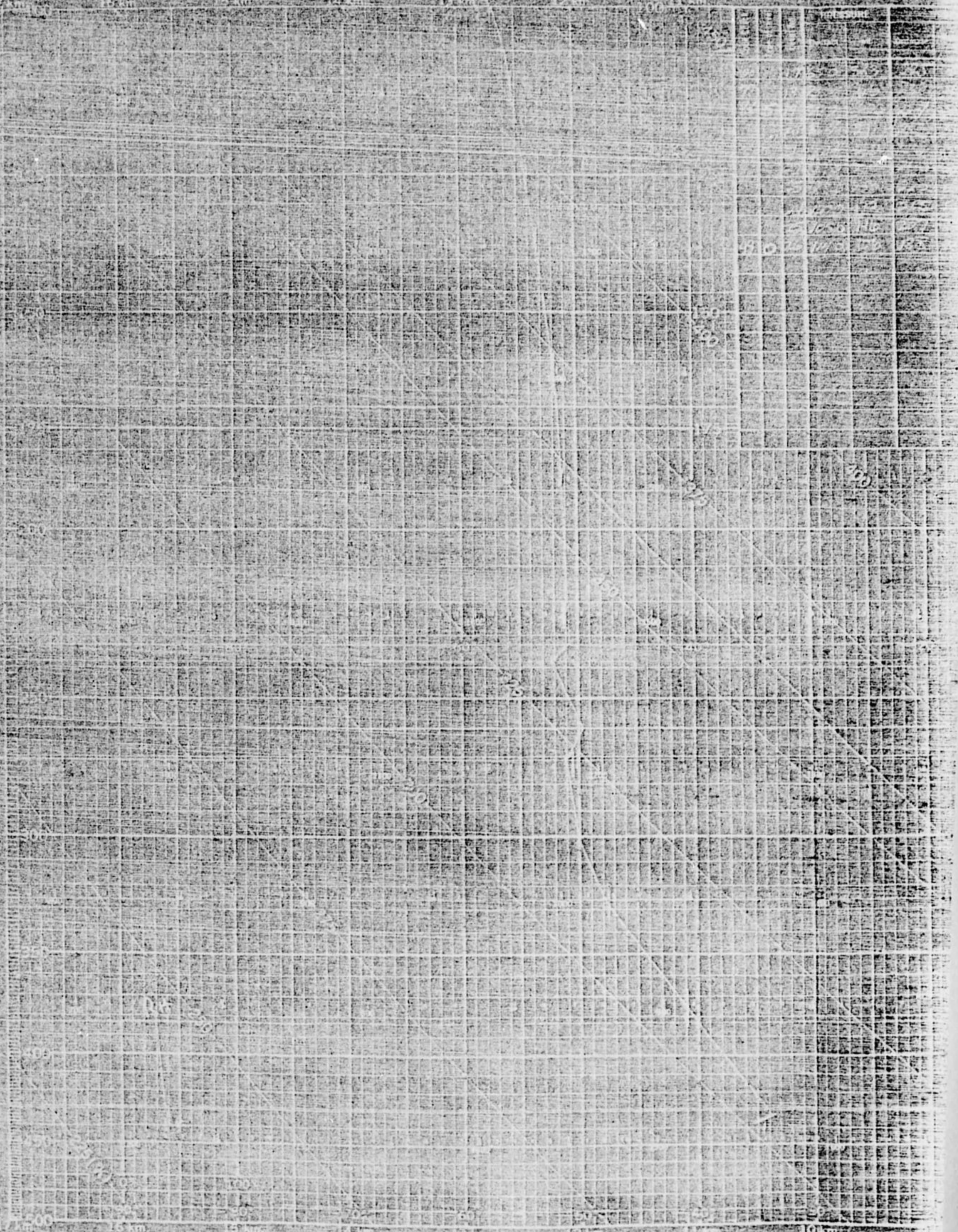
LEGEND FOR PLOTTED VALUES

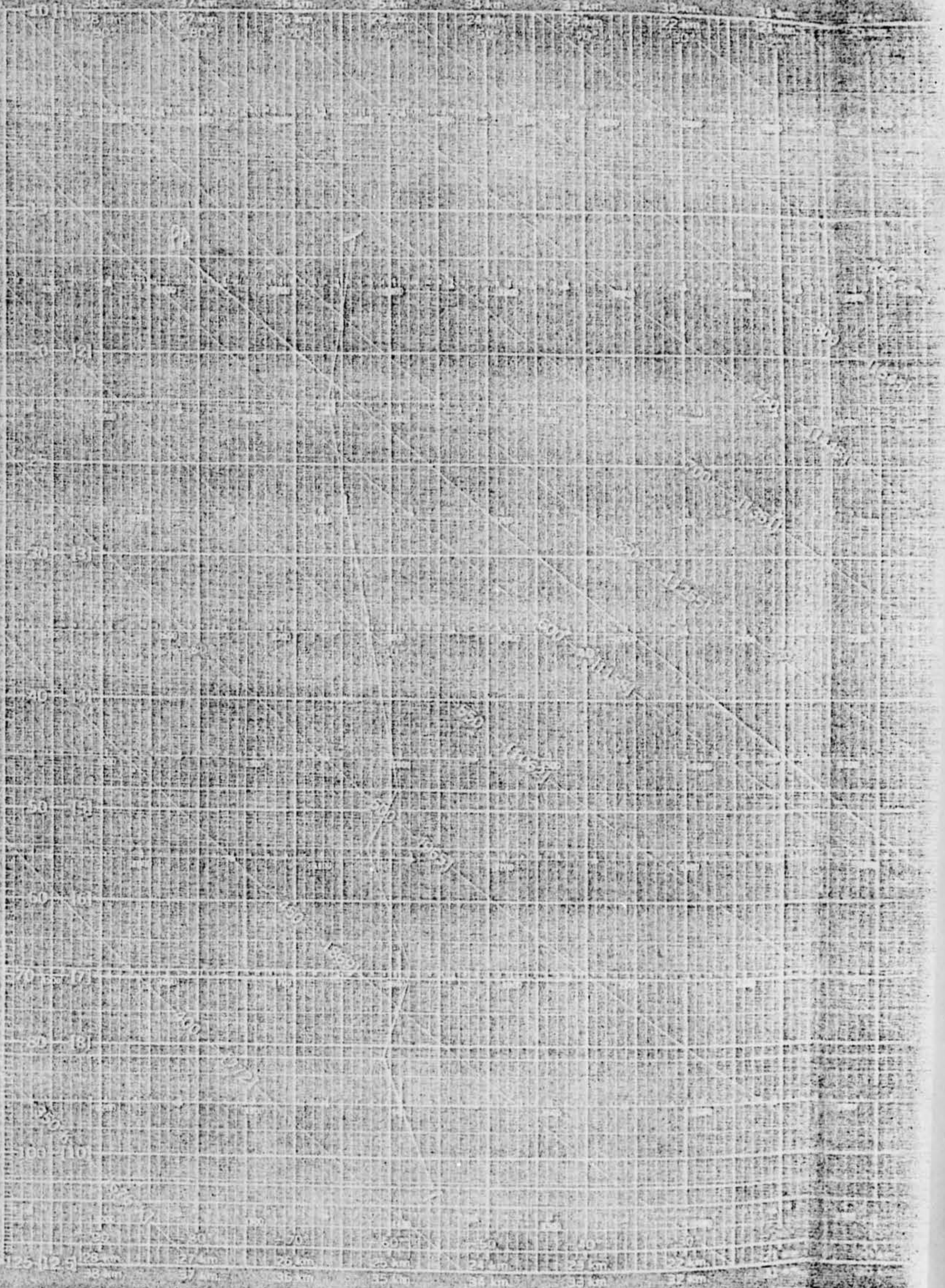
Symbol	Description
Circle	Temperature
Square	Humidity
Triangle	Pressure
Star	Wind
Circle with cross	Clouds
Square with cross	Precipitation
Triangle with cross	State of sky
Star with cross	Direction of wind
Circle with dot	Force of wind
Square with dot	Name of vessel
Triangle with dot	Rank and name of commander
Star with dot	Name and rank of observer
Circle with cross and dot	Name and rank of assistant
Square with cross and dot	Name and rank of engineer
Triangle with cross and dot	Name and rank of surgeon
Star with cross and dot	Name and rank of chaplain
Circle with cross, dot, and cross	Name and rank of other

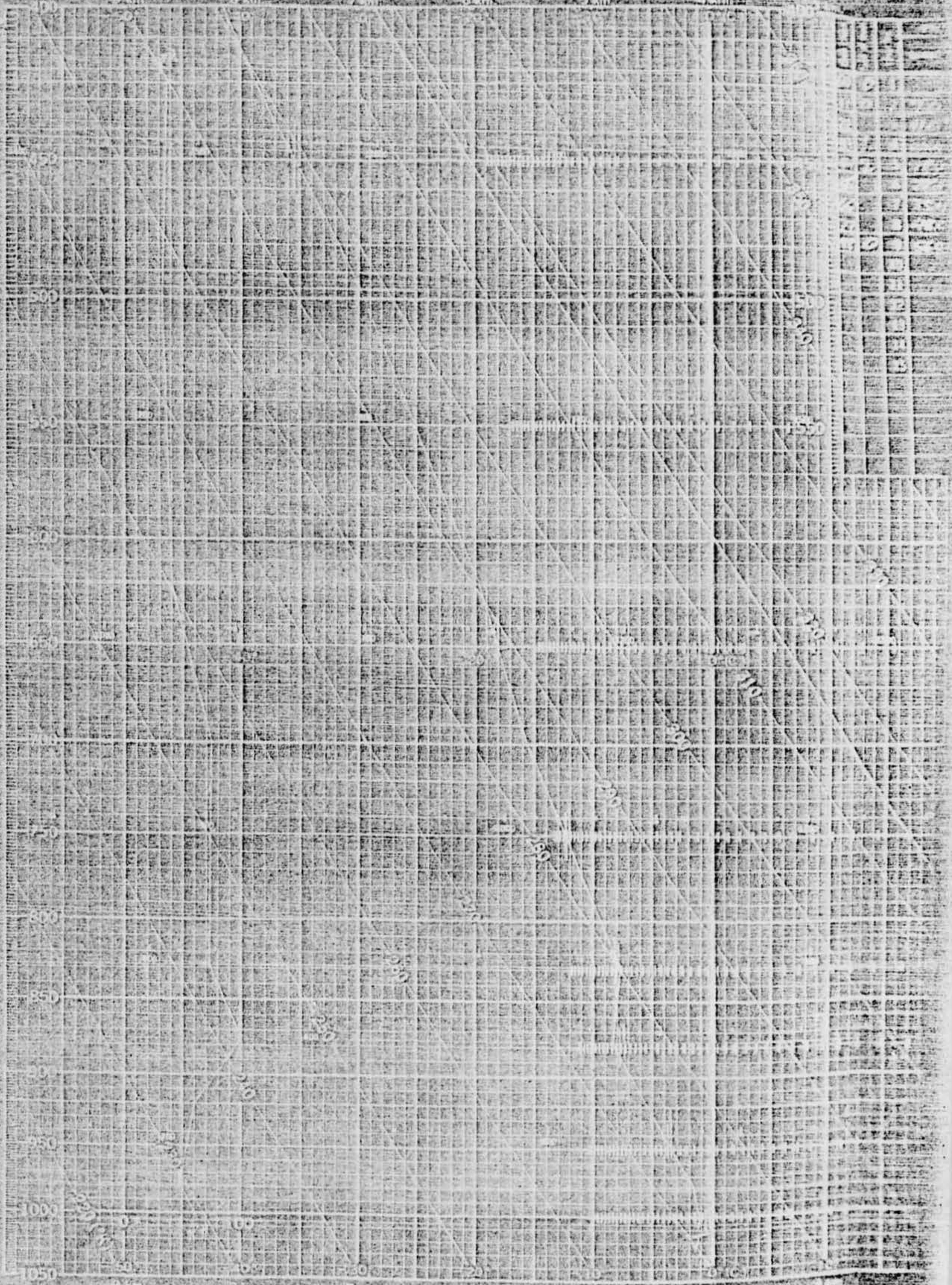
DATE AND TIME

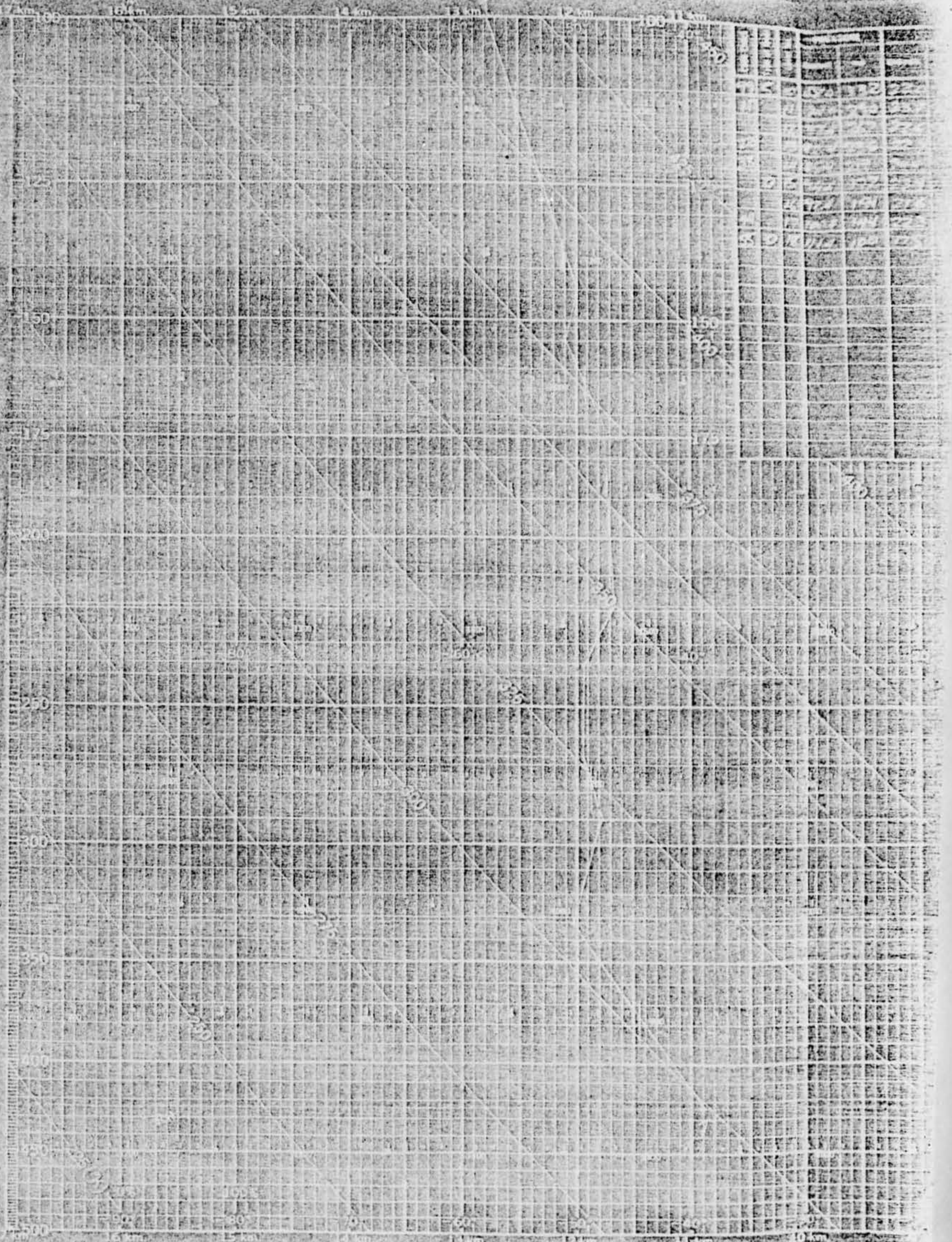
Year	Month	Day	Hour	Minute
1958	JAN	1	12	00
1958	JAN	1	12	00

NAME _____
 TITLE _____
 OFFICE _____
 DATE _____
 TIME _____
 LOCATION _____
 WIND _____
 TEMPERATURE _____
 HUMIDITY _____
 PRESSURE _____
 VISIBILITY _____
 CLOUDS _____
 PRECIPITATION _____
 STATE OF SKY _____
 DIRECTION OF WIND _____
 FORCE OF WIND _____
 NAME OF VESSEL _____
 RANK AND NAME OF COMMANDER _____
 NAME AND RANK OF OBSERVER _____
 NAME AND RANK OF ASSISTANT _____
 NAME AND RANK OF ENGINEER _____
 NAME AND RANK OF SURGEON _____
 NAME AND RANK OF CHAPLAIN _____
 NAME AND RANK OF OTHER _____









1991

ADIABATIC CHART

CODED MESSAGE DR TRANSMISSION

1990-1991


[illegible]

LEGEND FOR CONSTANT PRESSURE RIDGES

[illegible]

LEGEND FOR ADJUSTED CURVES

DATE AND RELEASE TIME



THE UNIVERSITY OF CHICAGO PRESS

1950

WBAK 510

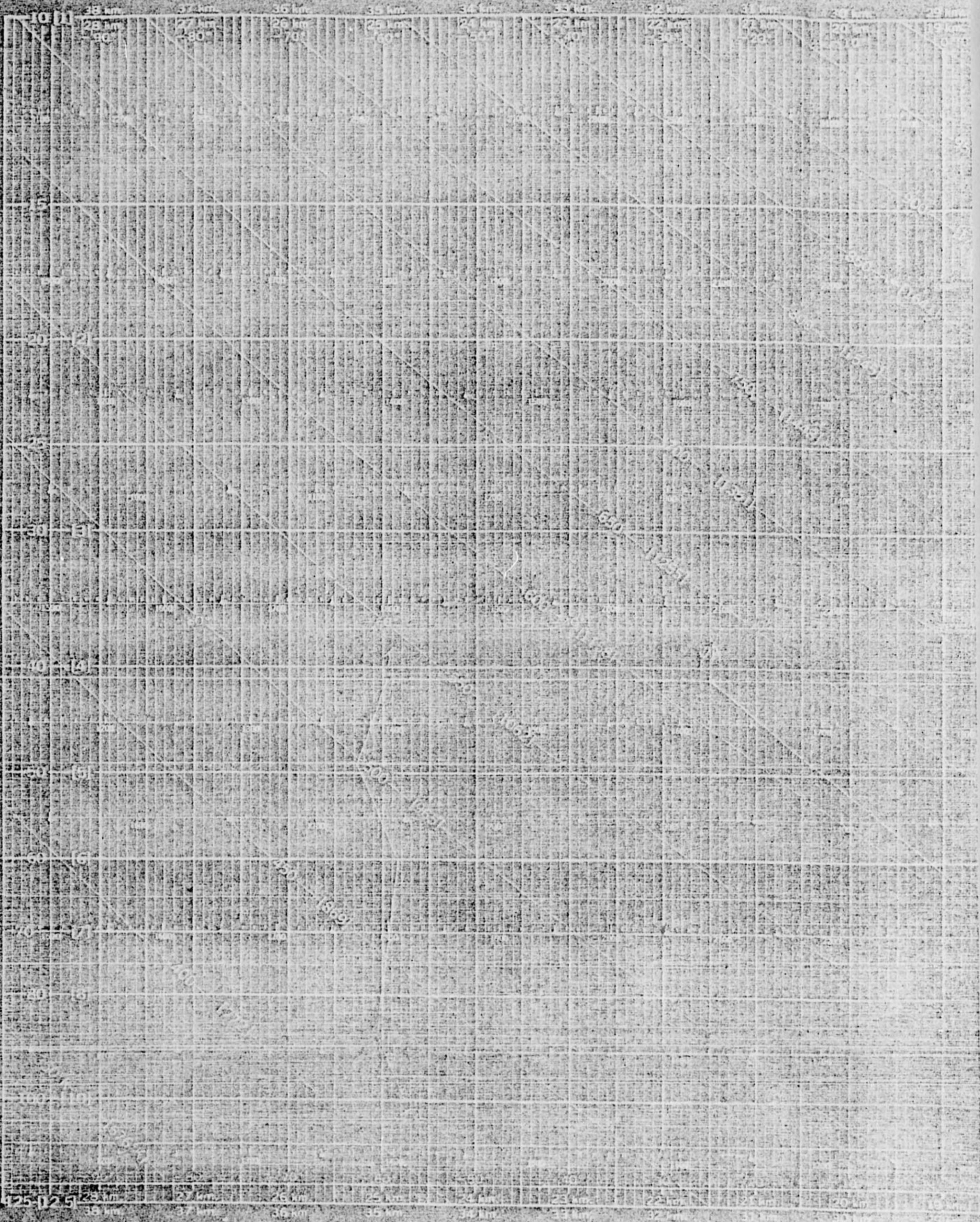
U.S. DEPARTMENT OF COMMERCE

WEATHER BUREAU

ADIABATIC CHART

DATA BEG. C

Pressure	Temperature	Wet-Bulb	Relative Humidity	Wet-Bulb Depression
1000	100	90	100	10
1000	90	80	90	10
1000	80	70	80	10
1000	70	60	70	10
1000	60	50	60	10
1000	50	40	50	10
1000	40	30	40	10
1000	30	20	30	10
1000	20	10	20	10
1000	10	0	10	10
1000	0	-10	0	10
1000	-10	-20	-10	10
1000	-20	-30	-20	10
1000	-30	-40	-30	10
1000	-40	-50	-40	10
1000	-50	-60	-50	10
1000	-60	-70	-60	10
1000	-70	-80	-70	10
1000	-80	-90	-80	10
1000	-90	-100	-90	10
1000	-100	-110	-100	10
1000	-110	-120	-110	10
1000	-120	-130	-120	10
1000	-130	-140	-130	10
1000	-140	-150	-140	10
1000	-150	-160	-150	10
1000	-160	-170	-160	10
1000	-170	-180	-170	10
1000	-180	-190	-180	10
1000	-190	-200	-190	10
1000	-200	-210	-200	10
1000	-210	-220	-210	10
1000	-220	-230	-220	10
1000	-230	-240	-230	10
1000	-240	-250	-240	10
1000	-250	-260	-250	10
1000	-260	-270	-260	10
1000	-270	-280	-270	10
1000	-280	-290	-280	10
1000	-290	-300	-290	10
1000	-300	-310	-300	10
1000	-310	-320	-310	10
1000	-320	-330	-320	10
1000	-330	-340	-330	10
1000	-340	-350	-340	10
1000	-350	-360	-350	10
1000	-360	-370	-360	10
1000	-370	-380	-370	10
1000	-380	-390	-380	10
1000	-390	-400	-390	10
1000	-400	-410	-400	10
1000	-410	-420	-410	10
1000	-420	-430	-420	10
1000	-430	-440	-430	10
1000	-440	-450	-440	10
1000	-450	-460	-450	10
1000	-460	-470	-460	10
1000	-470	-480	-470	10
1000	-480	-490	-480	10
1000	-490	-500	-490	10
1000	-500	-510	-500	10
1000	-510	-520	-510	10
1000	-520	-530	-520	10
1000	-530	-540	-530	10
1000	-540	-550	-540	10
1000	-550	-560	-550	10
1000	-560	-570	-560	10
1000	-570	-580	-570	10
1000	-580	-590	-580	10
1000	-590	-600	-590	10
1000	-600	-610	-600	10
1000	-610	-620	-610	10
1000	-620	-630	-620	10
1000	-630	-640	-630	10
1000	-640	-650	-640	10
1000	-650	-660	-650	10
1000	-660	-670	-660	10
1000	-670	-680	-670	10
1000	-680	-690	-680	10
1000	-690	-700	-690	10
1000	-700	-710	-700	10
1000	-710	-720	-710	10
1000	-720	-730	-720	10
1000	-730	-740	-730	10
1000	-740	-750	-740	10
1000	-750	-760	-750	10
1000	-760	-770	-760	10
1000	-770	-780	-770	10
1000	-780	-790	-780	10
1000	-790	-800	-790	10
1000	-800	-810	-800	10
1000	-810	-820	-810	10
1000	-820	-830	-820	10
1000	-830	-840	-830	10
1000	-840	-850	-840	10
1000	-850	-860	-850	10
1000	-860	-870	-860	10
1000	-870	-880	-870	10
1000	-880	-890	-880	10
1000	-890	-900	-890	10
1000	-900	-910	-900	10
1000	-910	-920	-910	10
1000	-920	-930	-920	10
1000	-930	-940	-930	10
1000	-940	-950	-940	10
1000	-950	-960	-950	10
1000	-960	-970	-960	10
1000	-970	-980	-970	10
1000	-980	-990	-980	10
1000	-990	-1000	-990	10
1000	-1000	-1010	-1000	10
1000	-1010	-1020	-1010	10
1000	-1020	-1030	-1020	10
1000	-1030	-1040	-1030	10
1000	-1040	-1050	-1040	10
1000	-1050	-1060	-1050	10
1000	-1060	-1070	-1060	10
1000	-1070	-1080	-1070	10
1000	-1080	-1090	-1080	10
1000	-1090	-1100	-1090	10
1000	-1100	-1110	-1100	10
1000	-1110	-1120	-1110	10
1000	-1120	-1130	-1120	10
1000	-1130	-1140	-1130	10
1000	-1140	-1150	-1140	10
1000	-1150	-1160	-1150	10
1000	-1160	-1170	-1160	10
1000	-1170	-1180	-1170	10
1000	-1180	-1190	-1180	10
1000	-1190	-1200	-1190	10
1000	-1200	-1210	-1200	10
1000	-1210	-1220	-1210	10
1000	-1220	-1230	-1220	10
1000	-1230	-1240	-1230	10
1000	-1240	-1250	-1240	10
1000	-1250	-1260	-1250	10
1000	-1260	-1270	-1260	10
1000	-1270	-1280	-1270	10
1000	-1280	-1290	-1280	10
1000	-1290	-1300	-1290	10
1000	-1300	-1310	-1300	10
1000	-1310	-1320	-1310	10
1000	-1320	-1330	-1320	10
1000	-1330	-1340	-1330	10
1000	-1340	-1350	-1340	10
1000	-1350	-1360	-1350	10
1000	-1360	-1370	-1360	10
1000	-1370	-1380	-1370	10
1000	-1380	-1390	-1380	10
1000	-1390	-1400	-1390	10
1000	-1400	-1410	-1400	10
1000	-1410	-1420	-1410	10
1000	-1420	-1430	-1420	10
1000	-1430	-1440	-1430	10
1000	-1440	-1450	-1440	10
1000	-1450	-1460	-1450	10
1000	-1460	-1470	-1460	10
1000	-1470	-1480	-1470	10
1000	-1480	-1490	-1480	10
1000	-1490	-1500	-1490	10
1000	-1500	-1510	-1500	10
1000	-1510	-1520	-1510	10
1000	-1520	-1530	-1520	10
1000	-1530	-1540	-1530	10
1000	-1540	-1550	-1540	10
1000	-1550	-1560	-1550	10
1000	-1560	-1570	-1560	10
1000	-1570	-1580	-1570	10
1000	-1580	-1590	-1580	10
1000	-1590	-1600	-1590	10
1000	-1600	-1610	-1600	10
1000	-1610	-1620	-1610	10
1000	-1620	-1630	-1620	10
1000	-1630	-1640	-1630	10
1000	-1640	-1650	-1640	10
1000	-1650	-1660	-1650	10
1000	-1660	-1670	-1660	10
1000	-1670	-1680	-1670	10
1000	-1680	-1690	-1680	10
1000	-1690	-1700	-1690	10
1000	-1700	-1710	-1700	10
1000	-1710	-1720	-1710	10
1000	-1720	-1730	-1720	10
1000	-1730	-1740	-1730	10
1000	-1740	-1750	-1740	10
1000	-1750	-1760	-1750	10
1000	-1760	-1770	-1760	10
1000	-1770	-1780	-1770	10
1000	-1780	-1790	-1780	10
1000	-1790	-1800	-1790	10
1000	-1800	-1810	-1800	10
1000	-1810	-1820	-1810	10
1000	-1820	-1830	-1820	10
1000	-1830	-1840	-1830	10
1000	-1840	-1850	-1840	10
1000	-1850	-1860	-1850	10
1000	-1860	-1870	-1860	10
1000	-1870	-1880	-1870	10
1000	-1880	-1890	-1880	10
1000	-1890	-1900	-1890	10
1000	-1900	-1910	-1900	10
1000	-1910	-1920	-1910	10
1000	-1920	-1930	-1920	10
1000	-1930	-1940	-1930	10
1000	-1940	-1950	-1940	10
1000	-1950	-1960	-1950	10
1000	-1960	-1970	-1960	10
1000	-1970	-1980	-1970	10
1000	-1980	-1990	-1980	10
1000	-1990	-2000	-1990	10
1000	-2000	-2010	-2000	10
1000	-2010	-2020	-2010	10
1000	-2020	-2030	-2020	10
1000	-2030	-2040	-2030	10
1000	-2040	-2050	-2040	10
1000	-2050	-2060	-2050	10
1000	-2060	-2070	-2060	10
1000	-2070	-2080	-2070	10
1000	-2080	-2090	-2080	10
1000	-2090	-2100	-2090	10
1000	-2100	-2110	-2100	10
1000	-2110	-2120	-2110	10
1000	-2120	-2130	-2120	10
1000	-2130	-2140	-2130	10
1000	-2140	-2150	-2140	10
1000	-2150	-2160	-2150	10
1000	-2160	-2170	-2160	10
1000	-2170	-2180	-2170	10
1000	-2180	-2190	-2180	10
1000	-2190	-2200	-2190	10
1000	-2200	-2210	-2200	10
1000	-2210	-2220	-2210	10
1000	-2220	-2230	-2220	10
1000	-2230	-2240	-2230	10
1000	-2240	-2250	-2240	10
1000	-2250	-2260	-2250	10
1000	-2260	-2270	-2260	10
1000	-2270	-2280	-2270	10
1000	-2280	-2290	-2280	10
1000	-2290	-2300	-2290	10
1000	-2300	-2310	-2300	10
1000	-2310	-2320	-2310	10
1000	-2320	-2330	-2320	10
1000	-2330	-2340	-2330	10
1000	-2340	-2350	-2340	10
1000	-2350	-2360	-2350	10
1000	-2360	-2370	-2360	10
1000	-2370	-2380	-2370	10
1000	-2380	-2390	-2380	10
1000	-2390	-2400	-2390	10
1000	-2400	-2410	-2400	10
1000	-2410	-2420	-2410	10
1000	-2420	-2430	-2420	10
1000	-2430	-2440	-2430	10
1000	-2440	-2450	-2440	10
1000	-2450	-2460	-2450	10
1000	-2460	-2470	-2460	10
1000	-2470	-2480	-2470	10
1000	-2480	-2490	-2480	10
1000	-2490	-2500	-2490	10
1000	-2500	-2510	-2500	10
1000	-2510	-2520	-2510	10
1000	-2520	-2530	-2520	10
1000	-2530	-2540	-2530	10
1000	-2540	-2550	-2540	10
1000	-2550	-2560	-2550	10



TDEW/UFO

MAR 9 1966

Balloon Launch Information

Fitchburg Municipal Airport
Fitchburg, Massachusetts

This office is in receipt of an unidentified flying object report regarding an observation on 14 January 1966. From all information received, this object appears to be a balloon. We would appreciate your office forwarding the times of launch on any balloons which your office may have launched on 14 January 1966, in order that a firm evaluation may be made.

FOR THE COMMANDER

ER
ERIC T. de JONCKHEERE, Colonel, USAF
Deputy for Technology and Subsystems

COORDINATION:

ORIGINATOR:

TDEW/UFO

MAJ H Quintanilla, Jr
MAJ H QUINTANILLA, JR

DATED

7 Mar 66

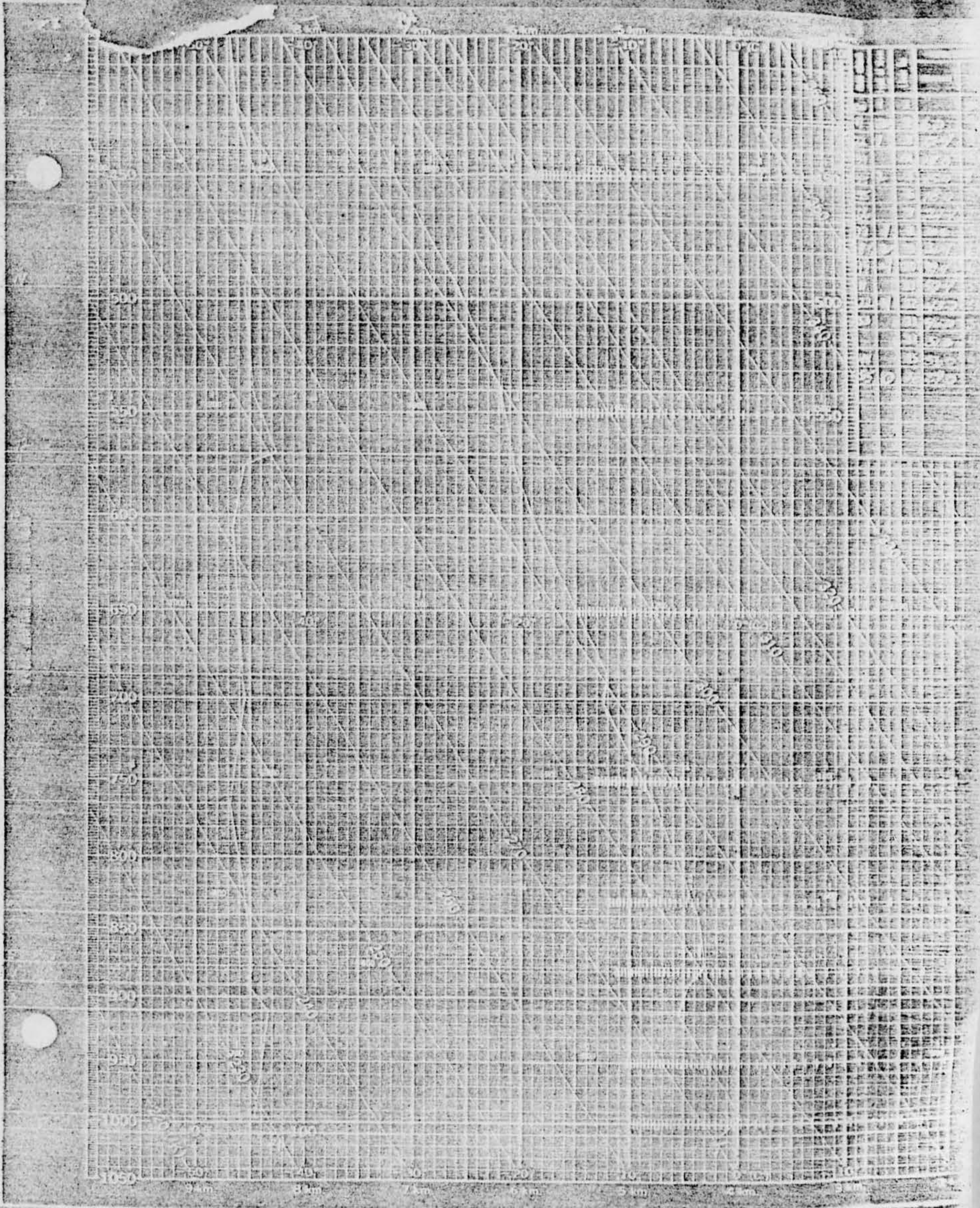
N. H. Perkins
TDEW

DATED

8 Mar 66

ORIGINAL FILE COPY

TDEW/UFO



DEARBORN OBSERVATORY
NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS 60201

January 29, 1966

Report of the Weston, Massachusetts Sightings of
January 14 and 17, 1966

Introduction

On January 18, 1966, while at a National Science Foundation meeting in New Orleans, I received a call from Dr. Winston Markey, Director of the Laboratory for Experimental Astronomy, at the Massachusetts Institute of Technology. Dr. Markey last year was Air Force Chief Scientist, and is still closely associated with that office although he is now back at MIT.

Dr. Markey asked whether I might come to Boston immediately to help clear up, if possible, sightings that had been reported to him by Mr. Roger Woodbury, a man in whom, Dr. Markey said, he had the utmost confidence and whose reliability as an observer and as a person of technical competence he would not question. Mr. Woodbury is Associate Director of the Instrumentation Laboratory at MIT and has been associated with Dr. Stark Draper, Director of the Instrumentation Laboratory, and with Dr. Markey, for the past twelve years. The Instrumentation Laboratory, you will recall, is responsible for the guidance system in the Polaris missiles.

When, therefore, Dr. Markey asked me to come to Boston I thought this case more than warranted ordinary attention, since in all probability it will also come to the attention of the present Chief Scientist of the Air Force, Dr. Robert Lowey. Accordingly, I made arrangements to go to Boston at the earliest opportunity which proved to be Saturday, January 22nd. I went almost immediately to MIT and talked with Mr. [REDACTED] for more than two hours, in the offices of Dr. Stark Draper. Clearances for admittance into the Instrumentation Laboratory had been taken care of previously.

A good part of our discussions were taperecorded (see attached) but the basic details of the two sightings are these. The two sightings, although apparently quite different in nature, occurred within three days of each other, and at the same time of day, at the same geographical location, and in nearly the same part of the sky. It is logical, therefore, to seek a possible connection between the two events.

Sighting No. 1, January 14, 1966, 5:55 P.M. EST (sunset 4:50 P.M.).

Mr. [REDACTED] had just come home from MIT and was changing his clothes, when his youngest son, Arthur, who had been told to take the dogs down to the run, came bounding into the house, crying out that "there's a flying saucer outside." Mr. [REDACTED], Mrs. [REDACTED] and two other sons, [REDACTED] and [REDACTED], ages thirteen and fifteen respectively [REDACTED] is eleven), headed out to see what it was all about. As he passed the service drawer in the kitchen, Mr. [REDACTED] picked up a small pair of binoculars regularly

kept there. Later [redacted] came in for some Bausch and Lomb general service binoculars. Mr. [redacted] said that he didn't expect to see anything unusual but was going out to see what all the commotion was about. For the ensuing twenty minutes or so he apparently was thoroughly impressed by what he saw, and has, as yet, been unable to explain it. By the time Mr. [redacted] got outside he saw the light, which his son Arthur said had been moving in slowly from the southwest, due south and at an elevation of about 20°. Two things struck Mr. [redacted] as outstanding: the nature of the light, and its motions both then, during the hovering phase, and after it took off. The interrogations of the other members of the family indicated to me that both items also puzzled them, but in general the motions of the object while hovering seemed to the other four witnesses to be even more unusual than the light itself. Mr. [redacted] felt, I gathered, that it was the light that was even more remarkable than the motions.

He described the light as one having a white spectrum, one of very high color-temperature. During his sighting, incidentally, he had for comparison a passing airliner, and a helicopter, and neither the motions of these or the lights that they carried, bore any resemblance to the same items in his UFO. The light was described as essentially a point source, even in binoculars, although in the latter it apparently subtended about the same angle that Jupiter would (two-thirds of a minute of arc). In the binoculars, the witness agreed, the light seemed to be pinched in the middle, somewhat like an hourglass. The central white light was likened to a welder's arc at about a block or half a block, but it was whitish rather than blue. Around the perimeter of the light, the witnesses reported coruscations, the light scintillating in different colors with a strong tendency to red and pink. Mr. [redacted] was emphatic that the scintillation in this case in no way resembled that of a star. He said that it gave him the feeling that a radioactive source was in operation, although he had no means of backing up this impression. There seemed to be no question but that the light was being given off, rather than being reflected. The light varied in intensity, but at its brightest it was described as brighter than Venus. There was no star or planet due south of the observer at that time, which could account for the position of the object, let alone its brightness and its hovering and direct motion.

With respect to the maneuvers of the object during the five or ten minutes that it was observed in the due south position, Mr. [redacted] stated that it could be seen through branches of a nearby tree, which branches served as a reference framework for judging the motions of the light. In his opinion, and in that of the three other observers, there is no question but that the light did actually move through small arcs in various directions during the hovering phase. We are here dealing with the testimony of a man who is used to observing deviations of a few seconds of arc in guidance systems and who is fully aware that there is a difference between illusory motion and real motion.

After five or ten minutes, and Mr. [redacted] is not sure of the time since the excitement was running high and no one was looking at a watch, the object moved to the southeast and upward, "as though directed" and then

becoming obscured by trees, all observers moved to the roadway where they could get a better view. It then reached the second stage of hovering, but for a much shorter period and then moved slowly southeastward, losing elevation (losing angular elevation), although Mr. [REDACTED] pointed out this was probably due to the fact that it was increasing its distance in level flight. The entire incident lasted about twenty or twenty-five minutes, from the time the boys first spotted it until it disappeared in the distance. When moving the most rapidly, it covered about 1° per second of time.

The comments of some of the other observers, and the general circumstances of the sighting, deserve mention. When Mrs. [REDACTED] went out her first impression was that it was a satellite, but its hovering in essentially one place for five minutes ruled that out, as of course did the nature of the light. Mr. [REDACTED] remarked at one place that had he been alone, and had he just had a drink, he wouldn't have believed it. As far as getting other witnesses concerned, the neighbors were too far away to call and Mr. [REDACTED] was too interested in watching the object to try to summon other witnesses. Mr. [REDACTED] described the manner in which the light changed colors and intensity as that akin to a "color organ" rather than to a light being changed by pushbutton.

To indicate the type of observer Mr. [REDACTED] is, he reported on his own the condition of the eyes of the various members of his family. Mr. [REDACTED] does not wear glasses and is extremely farsighted. Likewise his wife is farsighted. For reading Mr. [REDACTED] needs glasses. [REDACTED] has good vision, while [REDACTED] is quite nearsighted. Roger, the oldest son, is slightly nearsighted.

[REDACTED] who used 6 x 30 binoculars, reported that the object appeared as though the light originated on the righthand side of the "object" with the bright color diffusing, so to speak, going up into the left where it spread out into a pale color.

All observers reported the plane traveling toward the northwest and the helicopter traveling toward the northeast. With his [REDACTED] binoculars he could see the helicopter by virtue of the reflection of its own lights. Both the plane and the helicopter traveled in straight flight.

As to the motion while hovering, it was hard to get at. It was variously described as jogging up and down, at random, and not quite at random but somewhat in a spiral, and generally as wandering. When it began to move, it appeared to travel directly as though going about its business.

In making this report Mr. [REDACTED] wishes it understood that he is reporting it officially to the Air Force, through me, and he also wishes it understood that he wishes no publicity. He has requested that any information we manage to gather about the possible cause of the sighting would be appreciated. He has not reported this to NICAP or to any other organization, and does not intend to do so.

The transcription of the tapes will add further to the general description of the event and in addition, the [redacted] boys have furnished me with completely independent drawings of the manner in which the object moved, especially when hovering.

Sighting No. 2, Evening of January 17th, 1966.

This is the sighting made by Mr. [redacted] on the evening of January 17th, at 5:45 P.M.; sunset was 4:53. Mr. [redacted] was reluctant to make this second report, thinking that perhaps he might really be regarded as having "flipped his lid." But inasmuch as he had never previously had any experience like this, and inasmuch as the two events may conceivably be connected, he felt it wise to mention the matter to me. He has reported the second sighting to no one else.

The second sighting, except for geographical location, position in the sky, and time of day, was quite unlike the first sighting. It can be described in much briefer terms. It was again observed by the same witnesses but the boys, in particular, evinced much less interest in this one than in the first one, since, as Mr. [redacted] put it, they thought of it as a cloud rather than as an unknown object. This time Mr. [redacted] was just four or five minutes from home, driving in his car, and as he turned the right angle into the street leading to his house, his attention was immediately taken by a bright, ruddy, fairly large cloud standing by itself in the southern sky at an elevation of between 20 and 30°. He could easily see it through his windshield, so its angular elevation could not have been very high.

Mr. [redacted] made a drawing on the blackboard, with the appropriately colored chalk incidentally, to indicate how it looked. I reproduce here the cloud with angular dimensions and time duration.

